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**FORMERLY UTILIZED SITES
REMEDIAL ACTION PROGRAM**

**ELIMINATION REPORT
SONABOND ULTRASONICS
FORMERLY AEROPROJECTS, INC.
200-T E. ROSEDALE AVENUE
WEST CHESTER, PENNSYLVANIA**

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U.S. Department of Energy
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INTRODUCTION

The Department of Energy (DOE), Office of Environmental Restoration and Waste Management, Office of Environmental Restoration, Office of Eastern Area Programs has reviewed the past activities of the Manhattan Engineer District (MED) and the Atomic Energy Commission (AEC) with Aeroprojects, Inc., in West Chester, Pennsylvania, and has completed a preliminary radiological survey of the site, which is presently occupied by Sonabond Ultrasonics.¹ With the exception of areas planned for remediation by the owner under Environmental Protection Agency (EPA) supervision, DOE has determined that the conditions at this site are in compliance with current radiological guidelines and standards.² Therefore, this site requires no additional DOE remedial action and is no longer under consideration for inclusion in the Formerly Utilized Sites Remedial Action Program (FUSRAP).

The material in this report consists of information from documents supporting the determination that the radiological conditions at the former Aeroprojects, currently known as Sonabond Ultrasonics, Inc., site are in compliance with radiological guidelines and standards determined to apply to this site and provides assurances that use of this site will not result in any measurable radiological hazard to site occupants or the general public.

Through the Office of Administrative Services, this elimination report is being placed in DOE's Freedom of Information (FOI) Public Reading Room in Washington, D.C., so that it will be accessible to the general public.

BACKGROUND

Site Function

Beginning in 1951, Aeroprojects, Inc., performed research and development (R&D) under contract to the Atomic Energy Commission (AEC). The company's work included investigation of the use of ultrasonic energy in the areas of instrumentation, welding, filling of tubes with powders, extrusion, solidification and cleaning. Materials used by the company include alloys and compounds of aluminum, beryllium, mercury, thorium, and uranium. The exact quantities of these materials is not known. Work for the AEC decreased in the mid 1960's and Aeroprojects began doing R&D under other government contracts. The Aeroprojects contracts with the AEC were closed out in 1973.

Site Description

The building that housed Aeroprojects, Inc., is located at 200-T E. Rosedale Avenue, West Chester, Pennsylvania. The building is a one story structure constructed of masonry. The building that was used for AEC work has been extensively remodeled.

The present owner of the building is Bishop Tube, Inc., and the building is managed by Philadelphia Ventures, a real estate holding company. The present tenant is Sonabond Ultrasonics, a subsidiary of Inductotherm Industries of Rancocas, New Jersey. The building was sold by Aeroprojects, Inc., to Bishop Tube, Inc. The date of sale is not known.

Radiological History and Status

The precautions taken during operations and the clean-up procedures used upon completion of the AEC work are not known. Consequently, a preliminary walkover gamma survey was conducted in May 1988 by Oak Ridge National Laboratory. Gamma exposure rates measured by scanning surfaces within the building revealed a range of 5 to 9 uR/h. Exposure rates near the ground surface outside the building ranged from 6 to 9 uR/h. These values compare favorably with radiation background levels in the eastern Pennsylvania area that typically range from 2.5 to 8.1 uR/h and average 6 uR/h.³ No areas of elevated gamma levels were detected. All values were well below the DOE guidelines of 20 uR/h above background for indoor gamma exposure rates.

Recently discovered information suggests that small amounts of radioactive residuals may have been buried on site. The areas that may contain these suspected burials are included in areas planned to be remediated by the current owners.

Elimination Analysis

The results of the radiological survey performed by ORNL indicate direct radiation levels are typical of natural background in the area. Further, areas containing possible burials will be remediated by the current owners under EPA supervision.

Based on the information summarized in this report, DOE's Office of Eastern Area Programs has eliminated the former Aeroprojects, Inc. site in West Chester, Pennsylvania from consideration under the Formerly Utilized Sites Remedial Action Program.

References

1. W.D. Cottrell and R.F. Carrier, "Radiological Survey of the Former Aeroprojects Facility, West Chester, Pennsylvania," Oak Ridge National Laboratory, Oak Ridge, Tennessee, ORNL/RASA-90/S (October 1990).

2. U.S. Department of Energy, "Guidelines for Residual Radioactivity at Formerly Utilized Sites Remedial Action Program and Remote Surplus Facilities Management Program Sites," (Revision 2, March 1987).
3. T.E. Myrick and B.A. Berven, "State Background Radiation Levels: Results of Measurements Taken During 1975-1979," Oak Ridge National Laboratory, ORNL/TM-7343 (November 1981).